| | |
|---|---|
| $V_{out} = A_d (V_+ - V_-) + ½ A_c (V_+ + V_-)$ [V] | $DR = 20 \log_{10} (V_{max} / V_{min})$ [dB] |
| $CMRR = 20 \log_{10} (A_d / \lvert A_c \rvert)$ [dB] | $SQNR = 6.02N + 1.76$ [dB] |
| $NEF = V_{IRN} \cdot \sqrt{} (2I_{BIAS} / (\pi \cdot V_t \cdot 4kT \cdot BW))$ | $DR_{actual} = 6.02ENOB + 1.76$ [dB] |
| $FOMS = DR_{dB} + 10 \log_{10} (BW / P)$ [dB] | $\Phi_t = V_t = kT / q$ [V] |
| $I_{ds} = \mu_n C_{ox} (W/L) \{(V_{gs} - V_{th})V_{ds} - ½ V_{ds}^2\}$ [A] | $S_I^2(f) = 2qI$ [$A^2$/Hz] |
| $I_{ds} = ½ \mu_n C_{ox} (W/L) (V_{gs} - V_{th})^2$ [A] | $S_I^2(f) = 4kT/R$ [$A^2$/Hz] |
| $I_{ds} = I_0 \exp (K_s \cdot V_{gs} / \Phi_t)$ [A] | $S_V^2(f) = 4kTR$ [$V^2$/Hz] |
| $R_{CT} = (RT / nF) \cdot 1 / i_0$ | $P_n = kT / C$ [$V^2$] |

| | | |
|---|---|---|
| $k = 1.38 \cdot 10^{-23}$ [J/K] | $q = 1.6 \cdot 10^{-19}$ [C] | $T = 300$ [K] * |

* Unless stated otherwise in the question